

## MPTEI

binit7994@gmail.com ▼

## Courses » Hardware Modeling using Verilog

Announcements Course Ask a Question Progress Mentor FAQ

## Unit 1 - How to access the portal

Course outline	Assignment 0	
	Due date for this assignment: 2018-08-06, 23:59 IST.	
How to access the portal	Submitted assignment (Submitted on 2018-06-30, 16:28)	
Lesson 1: How to access the home page?	1) What is the maximum number that can be represented in 8-bit unsigned binary?  127 128	1 point
to access the course page?	<ul><li>255</li><li>256</li></ul>	
Lesson 3: How to access the MCQ, MSQ and	Yes, the answer is correct. Score: 1	
Programming assignments?	Accepted Answers: 255	
Quiz : Assignment 0	2) What is the smallest negative number that can be represented in 8-bit 2's complement binary?	1 point
	-127 -128 -255 -256  Yes, the answer is correct. Score: 1 Accepted Answers:	
	-128	
	3) What is meant by synthesis?	1 point
	<ul> <li>To generate a circuit from a given specification.</li> <li>To verify the correct operation of a circuit.</li> <li>To verify whether the specification is correct.</li> <li>None of these.</li> </ul>	
	Yes, the answer is correct. Score: 1	
	Accepted Answers: To generate a circuit from a given specification.	
	4) What are the advantages of FPGA-based design over ASIC design?	1 point
	<ul><li>☐ It is faster.</li><li>☑ It is more flexible.</li></ul>	

It has lower design cost.	
None of these.	
Yes, the answer is correct. Score: 1	
Accepted Answers: It is more flexible. It has lower design cost.	
5) Why are CAD tools essential in modern day designs?	1 point
<ul> <li>They can handle large designs.</li> <li>They generate better quality circuits.</li> <li>They are available for free to the designers.</li> <li>None of these.</li> </ul>	
Yes, the answer is correct. Score: 1	
Accepted Answers: They can handle large designs.	
6) The output of a 4-input AND gate will be 1 if	1 point
<ul> <li>At least one of the inputs is at 0.</li> <li>At least one of the inputs is at 1.</li> <li>All the inputs are at 0.</li> <li>All the inputs are at 1.</li> </ul>	
Yes, the answer is correct. Score: 1	
Accepted Answers: All the inputs are at 1.	
7) The output of a 4-input NOR gate will be 1 if	1 point
<ul> <li>At least one of the inputs is at 0.</li> <li>At least one of the inputs is at 1.</li> <li>All the inputs are at 0.</li> <li>All the inputs are at 1.</li> </ul>	
Yes, the answer is correct. Score: 1	
Accepted Answers: All the inputs are at 0.	
8) For a full adder circuit with inputs A, B and C, the carry output is given by	1 point
<ul> <li>A.B.C</li> <li>A.B + B.C + C.A</li> <li>A.B.C' + A.B'.C + A.B.C' + A.B.C</li> <li>None of these</li> </ul>	
Yes, the answer is correct. Score: 1	
Accepted Answers: A.B + B.C + C.A	
9) How many select lines are there in a 16-to-1 multiplexer?  2 3 4 5	1 point

Yes, the answer is co Score: 1	orrect.					
Accepted Answers:						
4						
10)What is a tristate output state?  When the voltage is somewhere in between logic 0 and logic 1.  When the output line is electrically isolated.  The third state in ternary logic system.  None of these.						
Rate this lesson:						
Not at all useful	Not very useful	Somewhat useful	Very useful	Extremely useful		
Previous F	Page			End		

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -



A project of



In association with



Funded by

Government of India Ministry of Human Resource Development

Powered by

